

Co-op Academic Plan

B.S. in Chemical Engineering

MichiganTech

Department of
Chemical Engineering

Freshman Year

Fall Semester

Course	Title	Cr
UN1001	Perspectives	3
CH1110	University Chemistry I	4
CH1111	University Chemistry Lab I	1
ENG1101	Eng Analysis and Problem Solv	3
MA1160	Calculus I	4
PH1100	Physics Lab I	1
Co-Curricular (1 unit)*		
Total		16

Spring Semester

Course	Title	Cr
UN1002	World Cultures	4
CH1120	University Chemistry II	4
ENG1102	Eng Modeling and Design	3
MA2160	Calculus II	4
PH2100	Physics I	3
Total		18

Sophomore Year

Fall Semester

Course	Title	Cr
UN2001	Revisions	3
CH2400	Principles of Organic Chemistry	4
CH2411	Organic Chemistry Lab	1
CM2110	Fundamentals of ChE I	3
MA3160	Calculus III	4
PH1200	Physics Lab II	1
Co-Curricular (1 unit)*		
Total		16

Spring Semester

Course	Title	Cr
UN2002	Institutions	3
CH3510	Physical Chemistry	3
CH3511	Physical Chemistry Lab	2
CM2120	Fundamentals of ChE II	3
MA2321	Linear Algebra	2
MA3521	Differential Equations	2
PH2200	Physics II	3
Total		18

Junior Year 1

Fall Semester – On co-op

Course	Title	Cr
UN3002	Cooperative Laboratory**	2
Total		2

Spring Semester

Course	Title	Cr
CM3110	Transport/Unit Operations I	3
CM3230	Thermodynamics for ChE	4
CM3215	Fundamentals of ChE Lab	2
CM3410	Technical Comm for ChE	3
Gen Ed Distribution*		3
Co-Curricular (1 unit)*		
Total		15

Junior Year 2

Fall Semester – On co-op

Course	Title	Cr
UN3002	Cooperative Laboratory**	2
Total		2

Spring Semester

Course	Title	Cr
CM3120	Transport/Unit Operations II	3
CM3310	Process Control	3
CM3510	Chemical Reaction Eng	3
Technical Elective*		3
Gen Ed Distribution*		3
Total		15

Senior Year

Fall Semester

Course	Title	Cr
CM4110	Unit Operations Lab	3
CM4310	Process Safety/Environment	3
CM4850	ChE Proc Anal & Design I	2
CM4851	ChE Design Lab I	1
Technical Elective*		3
Gen Ed Distribution*		3
Total		15

Spring Semester

Course	Title	Cr
CM4120	Chemical Plant Operations Lab	3
CM4860	ChE Proc Anal & Design II	2
CM4861	ChE Design Lab II	1
Technical Elective*		2
Free Elective*		3
Gen Ed Distribution*		3
Total		14

* See back of standard plan or flowchart for description of course requirements.

**Up to 4 credits of UN3002 counts as an engineering technical elective. Students maintain

full-time status while on co-op. Additional co-ops may be taken during the summer semesters.

Updated 1/19/2006